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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/577,080	•	05/23/2000	Mari Uenishi	10921.88US01	5171	
23552	7590	12/22/2003		EXAMINER		
MERCHA:	NT & GC	OULD PC	TRAN, HIEN THI			
P.O. BOX 2 MINNEAPO		V 55402-0903		ART UNIT PAPER NUMBER		
	32.02.03.03			1764		
				DATE MAILED: 12/22/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

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	App	lication No.	Applicant(s)	
		577,080	UENISHI ET AL.	
Office Action Summar	Y Exa	miner	. Art Unit	
· 	Hier	n Tran	1764	
The MAILING DATE of this con Period for Reply	nmunication appears	on the cover sheet	t with the correspondence ac	ddress
A SHORTENED STATUTORY PERIOD THE MAILING DATE OF THIS COMI - Extensions of time may be available under the pro- after SIX (6) MONTHS from the mailing date of thi - If the period for reply specified above is less than in - If NO period for reply is specified above, the maximum failure to reply within the set or extended period for any reply received by the Office later than three meanned patent term adjustment. See 37 CFR 1.70 Status	MUNICATION. ovisions of 37 CFR 1.136(a). It is communication. thirty (30) days, a reply within mum statutory period will apply or reply will, by statute, cause tonths after the mailing date of	In no event, however, may the statutory minimum of y and will expire SIX (6) N the application to become	y a reply be timely filed thirty (30) days will be considered time MONTHS from the mailing date of this of a ABANDONED (35 U.S.C. § 133).	
1) Responsive to communication(s) filed on .			
2a)☐ This action is FINAL .	2b)⊠ This action	n is non-final.		
3) Since this application is in concluded in accordance with the part of the	dition for allowance ex	xcept for formal m		e merits is
Disposition of Claims				
4)⊠ Claim(s) <u>1-10</u> is/are pending in	the application.			
4a) Of the above claim(s)	• •	om consideration.		
5)⊠ Claim(s) <u>9 and 10</u> is/are allowe				
6)⊠ Claim(s) <u>1-8</u> is/are rejected.				
7) Claim(s) is/are objected	to.			
8) Claim(s) are subject to r	estriction and/or elec	tion requirement.		
Application Papers		•		• .
9)☐ The specification is objected to	by the Examiner.		•	
10)☐ The drawing(s) filed on is	•	or b)☐ objected	to by the Examiner.	
Applicant may not request that any	•	•		
Replacement drawing sheet(s) incl	-			FR 1.121(d).
11) The oath or declaration is objec			=	
Priority under 35 U.S.C. §§ 119 and 120	0			
12) Acknowledgment is made of a		rity under 35 U.S.(C. § 119(a)-(d) or (f).	
a)⊠ All b)□ Some * c)□ None 1.⊠ Certified copies of the pri 2.□ Certified copies of the pri	e of: iority documents have iority documents have	e been received. e been received ir	Application No	01
3. Copies of the certified co application from the Inter* See the attached detailed Office	national Bureau (PC	T Rule 17.2(a)).		Stage
13) Acknowledgment is made of a classince a specific reference was inceed a CFR 1.78.	cluded in the first sen	tence of the speci	fication or in an Application	
a) The translation of the foreign	· ·	7 7		
14) Acknowledgment is made of a clareference was included in the firs				
Attachment(s)				
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Rev 3) Information Disclosure Statement(s) (PTO-14			w Summary (PTO-413) Paper No(of Informal Patent Application (PTO	
	,	,		•

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DETAILED ACTION

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Drawings

2. The drawings have not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the drawings to comply with CFR 1.84(p)(5), e.g. they should include the reference sign(s) mentioned in the specification and vice versa.

Specification

3. The specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

Claim Rejections - 35 USC § 112

- 4. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 5. Claims 3-4, 8 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 3, it is unclear as to how the surface layer portion is related to the Ce-Zr and Zr-Ce complex oxides set forth in claim 1. See claim 4 likewise.

In claim 8, line 2 "the surface layer portion" lacks positive antecedent basis.

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Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

7. Claims 1-4, 6-8 are rejected under 35 U.S.C. 102(b) as being anticipated by Funabiki et al (5,147,842).

Funabiki et al discloses a catalytic converter comprising:

a first coating layer formed on a heat resistant support, the first coating layer containing alumina supporting a platinum group catalyst (col. 2, lines 50-56; col. 3, lines 21-26), and

a second coating layer formed on the first coating layer, the second coating layer containing Ce-Zr complex oxide (e.g. zirconium compound) carrying at least one element of the platinum group and Zr-Ce complex oxide (e.g. ceria-stabilized zirconia) which differs in

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composition from the Ce-Zr complex oxide, and carries at least one element of the platinum group (col. 2, lines 56-62; col. 3, lines 46-50).

Instant claims 1-4, 6-8 structurally read on the apparatus of Funabiki et al.

8. Claims 1-4, 6-8 are rejected under 35 U.S.C. 102(e) as being anticipated by Tanaka et al. (6,261,989).

Tanaka et al discloses a catalytic converter comprising:

a first coating layer formed on a heat resistant support, the first coating layer containing alumina supporting a platinum group catalyst, such as Pd, and

a second coating layer formed on the first coating layer, the second coating layer containing cerium complex oxide carrying Pt and Rh catalyst and zirconium complex oxide which differs in composition from the cerium complex oxide, and carries Pt and Rh (col. 3, lines 6-65; col. 9, line 65 to col. 10, line 2; claims 1-14).

Instant claims 1-3, 5-8 structurally read on the apparatus of Tanaka et al.

Claim Rejections - 35 USC § 103

- 9. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 10. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.

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2. Ascertaining the differences between the prior art and the claims at issue.

3. Resolving the level of ordinary skill in the pertinent art.

4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

11. The art area applicable to the instant invention is that of <u>catalytic converter</u>.

One of ordinary skill in this art is considered to have at least a B.S. degree, with additional education in the field and at least 5 years practical experience working in the art; is aware of the state of the art as shown by the references of record, to include those cited by applicants and the examiner (ESSO Research & Engineering V Kahn & Co, 183 USPQ 582 1974) and who is presumed to know something about the art apart from what references alone teach (In re Bode, 193 USPQ 12, (16) CCPA 1977); and who is motivated by economics to depart from the prior art to reduce costs consistent with the desired product characteristics. In re Clinton 188 USPQ 365, 367 (CCPA 1976) and In re Thompson 192 USPQ 275, 277 (CCPA 1976).

12. Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Funabiki et al (5,147,842) in view of Tanaka et al (6,261,989).

Tanaka et al discloses provision of using barium sulfate in the coating layer for preventing Pd from being poisoned by hydrocarbons contained in the exhaust gas.

It would have been obvious to one having ordinary skill in the art to add barium sulfate in the first coating layer of Funabiki et al so as to prevent Pd from being poisoned by hydrocarbons contained in the exhaust gas as taught by Tanaka et al.

Allowable Subject Matter

13. Claims 9-10 are allowed.

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Double Patenting

14. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

15. Claims 1-3, 5 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-14 of U.S. Patent No. 6,261,989. Although the conflicting claims are not identical, they are not patentably distinct from each other because they are directed to the same conceptual invention.

Conclusion

16. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hien Tran whose telephone number is (571) 272-1454. The examiner can normally be reached on Tuesday-Friday from 7:30AM-6:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Glenn Caldarola can be reached on (571) 272-1444.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0661.

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HT

December 15, 2003

then Iran

Hien Tran Primary Examiner Art Unit 1764 Page 7